KHOTSYANOVA, T. L., and STRUCHKOV, G. T.

"The X-Ray I vestigation of Crystals of Some Ferrocene Derivatives"

(Section \$-10) a paper submitted at the General Assembly and International Congress of Crystallography, 10-19 Jul 57, Montreal, Canada.

C-3,800,189

KHOTSYANOVA, T. L., STRUCHKOV, G. T. and KITAYCOROLEKIY, A Y.

Institute of Elemento-Organic Compounds, Moscow- "The Crystal Structure of Some Tropylium Salts" (Section 7-11) a paper submitted at the General Assembly and International Congress of Crystellography, 10-19 Jul 57, Montreal, Canada.

c-3,800,189

KHOTSYAMOVA, T. L. and STRUCHKOV, G. T.

Institute of Elemento-Organic Compounds, Moscow-"The Crystal Structures of Diphenyl-halogenonium Compounds" (Section 7-9) a paper submitted at the General Assembly and International Congress of Crystallography, 10-19 Jul 57, Montreal, Canada.

c-3,800,189

KHOT	SYANOVA	
	Crystalline structures of diphenyliodonium halogens. Kristallo- grafiia 2 no.1:51-58 *52. (MLRA 10:7)	
	1. Institut elementoorganicheskikh soyedineniy. (Crystallography) (Iodonium compounds)	

Card 1/3

Struchkov, Yu.T. and Motsymova, T.L. 70-3-4/20

X-ray investigation of the crystals of some ferrocene derivatives. (Rentgenograficheskoe issledovaniye kristallov AUTHOR: TITIE: nekotorykh proizvodnykh ferrotsena)

"Kristallografiya" (Crystallography), 1957, Vol. 2, No.3, pp. 382 - 383 (U.S.S.R.) PERIODICAL:

The investigation of substituted ferrocene derivatives has been undertaken to determine their molecular configuration in crystals, since from a theoretical point of view there are ABSTRACT: several possible configurations, corresponding to various rotational isomeres. It is also necessary to establish what factors determine a choice of a configuration realised in crystal: a specific mutual influence of substituents or a tendency to minimise steric hindrances in a molecule and to acquiring maximum density of packing.
The crystals of the diketoferrocenes investigated are

characterised by the data in Table 1, p. 382. The crystal structure of dibenzoylferrocene, Fe(C5H4COC6H5). has been investigated in greater detail. Tentative data on the signs of the structure amplitudes have been obtained by minimention of a three-dimensional Patterson function and by application of the statistical approach. Atomic co-ordinates

70-3-9/20

X-ray investigation of the crystals of some ferrocene derivatives. (Cont.)

have been determined by a three-dimensional electron-density distribution, Bond distances are: Fe-C = 2.05 ± 0.02 Å; C - C = 1.41 ± 0.03 Å (in the ferrocene nucleus), 1.39 ± 0.03 Å (in the benzene rings) and 1.52 ± 0.02 Å (between atoms of the cyclic rings and atoms of a ketogroup); C - O = 1.21 ± 0.01 Å. The benzoyl groups are not located in planes of five-membered rings but are turned out of them by rotation about ordinary rings but are turned out of them by rotation about ordinary rings but are turned out of them by rotation about ordinary rings but are turned out of them by rotation about ordinary rings but are turned out of them by rotation about ordinary rings but are turned out of them by rotation about ordinary rings but are turned out of them as an asymmetric configuration. The packing coeff-corresponding to the rotational 1,2 -isomer. The packing coeff-cient of this structure has the usual value 0.76.

Determination of the signs of structure amplitudes for diacetyl-, dipropyonyl- and dibutyrylferrocenes has appeared more difficult since the ferrous atom does not take part in a great number of reflexions because its co-ordinates have special great number of reflexions because its co-ordinates have special values. This notwiths anding, comparison of unit cells of values. This notwiths and dipropyonylferrocenes reveals some dibenzoylß, diacetyl- and dipropyonylferrocenes reveals some similarity between them and has made it possible to propose an similarity between them and has made it possible to propose an approximate molecular orientation for the two latter compounds. This approximate orientation has been made more precise by the calculation of two-dimensional series which also indicate the

card 2/3

70-3-9/20

X-ray investigation of the crystals of some ferrocene derivatives. (Cont.)

1,2' -configuration. A molecule of dibutyrylferrocene occupies in the crystal a special position with the symmetry 2; its orientation in the unit cell has been established by a twodimensional approach.

The investigation of some other disubstituted ferrocene derivatives is in progress (di-p-bromophenylferrocene, dimethyl

ester of ferrocene dicarboxylic acid and dialkylferrocenes). (Full translation of text.) There are I figure and I table. LATION: Institute of Elementary Organic Compounds (Institut ASSOCIATION:

Elementoorganicheskikh soedineniy)

SUBMITTED:

February 22, 1957.

AVAILABLE:

Library of Congress

Card 3/3

70-3-10/20

Khotsyanova, T.L. and Struchkov, Yu.T.

The crystal structures of diphenylhalogenonieve compounds. AUTHOR: (Kristallicheskiye struktury difenilgalogenonievykh TITIE:

seredimenty)

Card 1/5

"Kristallografiya" (Crystallography), 1957, Vol.2, No.3, pp. 384-385 (U.S.S.R.) PERIODICAL:

The present work constitutes a part of a more general investigation of halogenonium compounds which is now in progress. ABSTRACT: These compounds contain a halogen atom X = Cl, Br, I in a valence state:

The best known representatives of this series of compounds have the following general formulae:

where R and R are organic radicals, Y is an 'anion' (C1, Br, 1, BF4) etc.). Some cases are known when an 'anion' and a 'cathion' of halogenonium compound represent parts of the same molecule, as exemplifi by phenyldimedonyliodon,

ATTEMPT CONTROL OF THE PROPERTY OF THE PROPERT

(Cont.)

70-3-10/20

The crystal structures of diphenylhalogenonieve compounds.

From the chemical point of view an investigation of such compounds is of interest for showing the nature of an X - Y bond (which in some cases is not purely ionic but has an intermediate character) and for establishing a valence configuration of a central halogen atom X.

The crystals of diphenyliodonium chloride and iodide are

isomorphous (see table, p. 384)
The co-ordinates of heavy atoms have been determined by a two-dimensional Patterson function P(x, 0, z) and by Harker section at y = 1/2. The full structures of these compounds have been established by calculating a three-dimensional elec-

Bond distances are: C - I = 2.08 Å, I - Cl = 3.08 Å, I - I = 3.29 Å. The bonds I - Cl and I - I are longer than Card 2/5

70-3-10/20

The crystal structures of diphenylhalogenonieve compounds.

covalent bonds and approach ionic bonds. The molecules of both compounds have T-shaped configuration: C-I-C=98, C-I-CI=87 and 174. Benzene rings are turned about I - C bonds relative to the C - I - C plane in order to remove steric hindrances between them. The molecules in crystal are united in 'dimeric' pairs at symmetry centres (1/4, 1/4, 0), approaching each other by their polar ends; the distances be-tween these parts of the molecules (I ... Cl = 3.20 k, I ... I = 3.34 Å) are remarkably shorter than the sums of the van der Waals radii. In iodide crystals intra- and inter-molecular distances I ... I are essentially equal so that this molecular distances I ... I are essentially equal so that this structure may be regarded as ionic. The packing of non-polar parts of the molecules (benzene rings) has the usual density (van der Waals radii are I 2.1 Å, C 1.8 Å, H 1.1 Å).

The crystals of fluoroborates of diphenyliodonium, diphenyl-

bromonium and diphenylchloronium are not isomorphous (see table,

p.385).

For determining the structure of diphenyliodonium fluoroborate two-dimensional Patterson functions calculated with reflections Card 3/5 Okl, also 1kl and 3kl (generalised projections) and threedimensional electron-density distributions have been applied.

70-3-10/20 The crystal structures of diphenylhalogenonieve compounds.

The investigation of diphenylchloronium and diphenylbromonium fluoroborates is less detailed (two-dimensional Patterson functions, their minimising, two-dimensional electron-density maps); it is intended to undertake further refinement by threedimensional electron-density calculation. In these purely ionic structures cattions have an angular configuration, the angle C - X - C exceeds 90 and benzene rings are turned out of the plane C - X - C to remove steric hindrances. The packing of these bulky cathions and tetrahedral anions [BF4] is of interest.

The non-centrosymmetrical structure of a double compound (C6H5)2IC1. HgCl2 has been determined by three Patterson and electron-density projections. The crystals belong to space group P21212 with four molecules in the unit cell $(a = 13.50 \pm 0.05, b = 5.82 \pm 0.03, c = 18.60 \pm 0.10 \text{ Å}).$ HgCl, molecules lose their individuality in crystal, forming a peculiar polyhedral chain with shared chlorine ions extended along a 21 axis parallel to [010]. Molecules (C6H5)2IC1 have

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-7013-19/2007. ---CIA-RDP86-2005-137-200722310015-0"

T-shaped configuration (similar to that found in the diphenyliodonium chloride crystals) and adjoin this polyhedral chain by their polar parts, approaching Hg atoms with their chlorines.

Non-polar parts of these molecules pack themselves in the usual (Full translation of test) There are 2 tables.

ASSOCIATION: Institute of Elementary Organic Compounds.

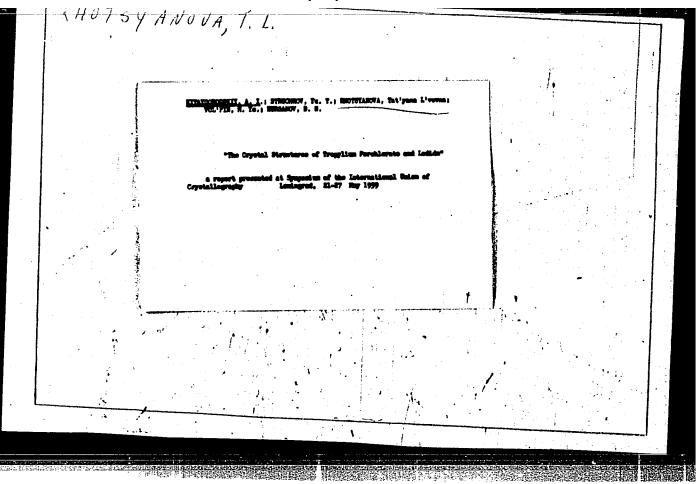
(Institut Elementoorganicheskikh soedineniy)

SUBMITTED: February 22, 1957.

AVAIIABLE: Library of Congress

Card 5/5

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310015-0



5.3100 Trungs 307/00-20-10-10-1 Kitaygorodskiy, A. I., Struchkov, Yu. T., Ehologynoso, T. L., Vol'pin, M. Ye., Kursanov, D. N. AUTHORS: TITLE: Crystal Structure of Tropylium Perchlorate one lostice PERIODICAL: Izvestiva Akademii nauk SSSR. Otdeleniye khist needilo. nauk, 1960, Nr 1, pp 39-44 (USSR) ABSTRACT: X-ray diffraction study of the structure of tropyllus perchlorate and iodide monocrystals was made, uning the method of three-dimensional electron density covies. The rollowing cell constants are given: [C2H2][CIO] $[C_1H_1]J$ 9.39 + 0.04 9,01±0,02 8,22±0,02 neasured (g/cm²) ~1.4 1.89 213.05 Card 1/5

"APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310015-0 THE PART OF THE PROPERTY OF THE PARTY OF THE

Crystal Structure of Tropylium Perchlorate and Iodide

78061 SOV/62-60-1-7/7

The radius of tropylium ring, length of $\mathcal{C} = \mathcal{C}$ bound and other data are given in Figs. 1, 2, 3, 4, and 5. There are 5 figures; and 5 references, 1 U.K., 1 Danish, 3 Soviet. The U.K. reference is: M.G.S. Dewar, R. Pettit, J. Chem. Soc., 20.1 (1956).

ASSOCIATION:

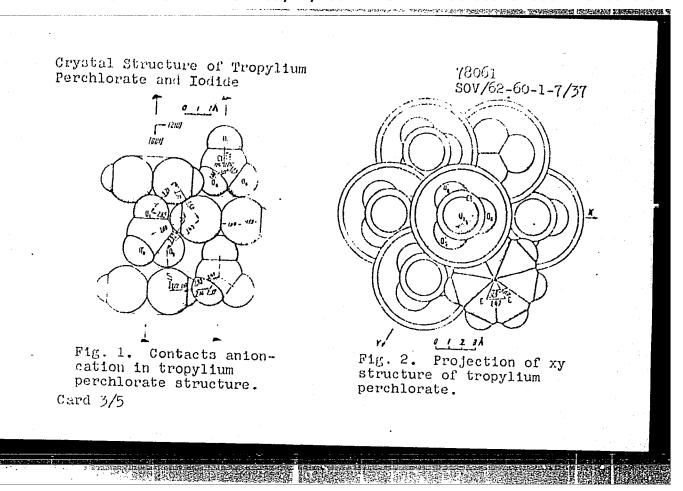
Institute of Element-Organic Compounds Academy of Sciences USSR (Institut elementoorganicheskikh

soyedineniy Akademii nauk SSSR)

SUBMITTED:

April 30, 1958

Card 2/5



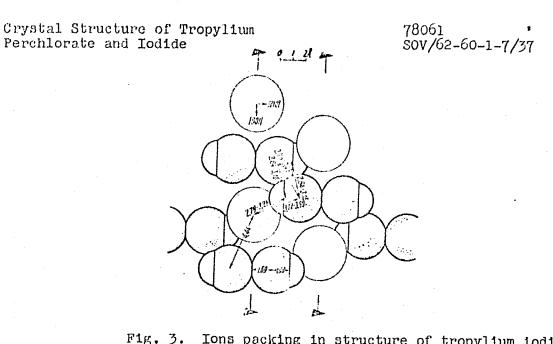


Fig. 3. Ions packing in structure of tropylium iodide.

C rd 4/5

Crystal Structure of Tropylium Perchlorate and Iodide

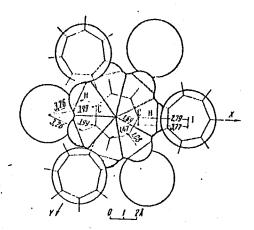
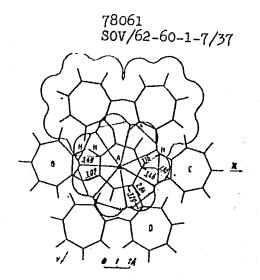


Fig. 4. Contacts cation-anion Fig. 5. Contacts cation-cation in structure of tropylium iodide. in structure of tropylium iodide.



Card 5/5

STRUCHKOVA, Yu.T.; KHOTSYAHOVA, T.L.

Crystal structure of diphenyliodonium fluoroborate. Isv.AN SSSR Otd.khim.nauk no.5:821-831 My '60. (MIRA 13:6)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR.

(Iodonium compounds)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310015-0"

STRUCHKOV, Yu.T.; KHOTSYANOVA, T.L.

Steric hindrances and conformation of molecules. Report no.3:
Structure of a 2,6-dichloro-4-nitrodimethylaniline molecule and crystal. Izv.AN SSSR Otd.khim.nauk no.8:1369-1378 Ag '60.

(MIRA 15:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Aniline) (Steric hindrance)

KHOTSYANOVA, T.L.; AVOYAN, R.L.

Preliminary I-ray study of some triphenyloxomium salts. Zhur. strukt.khim. 4 no.1:113 Ja-F '63. (MIRA 16:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Oxonium compounds) (X-ray crystallography)

KHOTSYAHOVA, T.L.; STRUCHKOV, Yu.T.

Crystalline and molecular structure of 2,6-dichloronaphthalene.
Zhur. strukt. khim. 5 no.3:404-406 ky-je '64.

(MIRA 18:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

KHOTSYANOVA, T.L.; ROBAS, V.I.; SEMIN, G.K.

Molecular crystals with the elements of disorder in their structure. Crystalline structure and nuclear quadrupole resonance spectra of pentabromofluorobenzene and pentachlorofluorobenzene. Zhur. strukt. khim. 5 no.4:644-646 Ag '64.

(MIRA 18:3)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

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BABUSHKINA, T.A.; KHOTSYANOVA, T.L.; SELIN, G.K.

and Il27 in hexabrono and hexabobensene. Zhur. struktshipsenesses khim. 6 no.2:307-308 Mr-Ap '65. (MIRA 18:7)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310015-0"

i normi	and work norms rovanie truda 1957. 44 p. (Wages)	in state farm vineyards] v vinogradarskikh sovkhoze (State farms)	Zarabotnaia plata akh. Odesskoe obl. (MIRA 12:4)
,	(wagas)	(acate larms)	
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Wages at viticulture state farms. Sots.trud no.8:77-79 Ag '57.

(MIRA 10:9)

(Viticulture--Froduction standards)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310015-0"

KHOTYANOVICH, S.I.; GIKENE, A.Yu.

Obtaining electrophotographic images in liquid developers. Zhur. nauch.i prikl.fot.i kin. 7 no.1:30-35 Ja-F 62. (MIRA 15:3)

l. Nauchno-issledovatel'skiy institut elektrografii, Vil'nyus. (Xerography)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310015-0"

EWT (m)/EWP(t)/EWP(b) UR/0236/65/000/002/0037/0048 AP6000670 ACC NR AUTHOR: Khotyanovich, S.I.; Matulis, Yu.Yu. 55 ORG: Institute of Chemistry and Chemical Technology AN LitSSR (Institut khimii i khimicheskoy tekhnologii AN LitSSR) Electrodeposition of platinum from alkaline platinate electrolytes TITLE: AN LitSSR. Trudy. Seriya B. Fiziko-matematicheskiye, khimicheskiye, geologicheskiye i tekhnicheskiye nauki, no.2, 1965, 37-48 TOPIC TAGS: electrodeposition, platinum, corrosion resistance, electrolysis ABSTRACT: The article is devoted to a study of certain phenomena which take place during the electrodeposition of platinum from alkaline platinate electrolytes. A study was also made of the quality and corrosion resistance of platinum coatings as a function of electrolyte composition and electrolysis conditions. On the basis of the cathode polarization curves obtained, a determination was made of the ranges of current denity over which there is deposited platinum alone or a mixture of platinum and hydrogen. It was established that deposits without hydrogen have the highest corrosion resistance; this resistance increases with increased holding time of the electrolyte after its preparation or after heating for several hours. Platinum coatings up to a thickness of 1-2 Cord 1/2

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icrons are o cracking ron micros he thin la urrent rig eposits de	solid and w of the depo cope examina yers decreas ht up to the	ithout cracks sits and to continuous shows the second in the pre-	lecreased c pat the siz acrease in lue. The q	orrosion re e and numbe the density uality of p	sistance. r of pores of the cat latinum ele	Elec- in hode ctro-
		TE: 080ct64/	ORIG REF	: 004/ OT	H REF: 001	
RC)						

HOTSTANOVSKIY, I.I.

Intensity of blood supply in the bones of animals of various constitutional types. Zhur.ob.biol. 16 no.6:505-510 E-D '55.

(NIRA 9:3)

1. Altayskiy sonal'nyy nauchno-issledovatel'skiy institut semledeliya i shivotnovodstva.

(CATTIE) (BONES--BLOOD SUPPLY)

KHOTSYANOVSKIY, O. I.: Master Chem Sci (diss) -- "Polarographic investigation of simple and some complex ions of cadmium in mixed solvents". Kiev, 1958. 11 pp (Min Higher Educ Ukr SSR, Kiev Order of Lenin Polytech Inst, Chair of Phys and Colloid Chem), 100 copies (KL, No 18, 1959, 121)

153-58-1-7/29

AUTHORS:

Khotsyanovskiy, O.I., Kudra, O.K.

TITLE:

Polarographic Investigation of Halide Complexes of Cadmium in Mixed Solvents. Communication 1: Methanol-Water (Polyarograficheskoye issledovaniye galogeničnykh kompleksov kadmiya v smeshannykh rastvoritelyakh. Soobshcheniye 1: Metanol-voda)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1958, Nr 1, pp. 43-53 (USSR)

ABSTRACT:

As is known, a solvent is not indifferent to the properties of complex compounds. The influence of various solvents on the structure of these compounds is little investigated up till now. The behavior of complex compounds in the mixtures of the solvents is almost less clarified. In this paper the authors describe a systematic polarographic investigation of the influence of aqueous solvents on the properties of some complex compounds of cadmium carried out by them (see table 1 and figure 1). The composition of these compounds and the relative liability of the constants were polarographically investigated. It was found that the addition

Card 1/2

153-58-1-7/29

Polarographic Investigation of Halide Complexes of Cadmium in Mixed Solvents.

of ethyl alcohol causes a displacement of the fields of existence (oblasti sushchestvovaniya) of the investigated complex compounds (see tables 2 to 5). A linear dependence could be found between -10 gK and 1/D in chloride, bromide and iodide complexes of cadmium. There are 5 figures, 5 tables, and 24 references, 20 of which are Soviet.

ASSOCIATION: Kafedra fizicheskoy i kolloidal'noy khimii (Chair of Physical and Colloidal Chemistry)

SUBMITTED: September 23, 1957

Card 2/2

5(4) AUTHORS:

Khotsyanovskiy, O. I., Kudra, O. K.

SOV/153-58-2-7/30

TITLE:

Polarographic Investigation of the Halogen Complexes of Cadmium in Mixed Solvents (Polyarograficheskoye issledovaniye galogenidnykh kompleksov kadmiya v smeshannykh rasvoritelyakh) Communication II. Ethanol-Water (Soob-

shcheniye II. Etanol-voda)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimiches-

kaya tekhnologiya, 1958, Nr 2, pp 36 - 42 (USSR)

ABSTRACT:

In the previous paper by the authors (Ref 1) certain rules governing the changes of the composition and the instability constants of cadmium halo complexes in aqueous methyl alcohol solutions were found. The present paper deals with the explanation of the influence of the nature of the solvent on the complexes if methanol is substituted by its homologs; it forms a logical continuation of the earlier papers.

The solutions contained 20.45 and 65 per cent by volume ethanol. Solutions containing LiCl and LiBr -

Card 1/4

Polarographic Investigation of the Halogen Complexes SOV/153-58-2-7/30 of Cadmium in Mixed Solvents. Communication II. Ethanol-Water

0.1 - 2.0 M, LiJ₃ - 0.01 - 2.0 M, LiNO₃ - 0.1 M, and $Cd(NO_3)$ - 4.10⁻³ M were used for the polarography. The temperature amounted to $25\pm0.1^{\circ}$. The method is described in detail in reference 1. Figures 1-3 and tables 1,2 give the results obtained. The half-wave potential of cadmium was displaced with the increasing ethanol content on the background of the indifferent electrolyte 0.1 M LiNO, into the more positive range of potentials, as compared to aqueous solutions (Table 1, in agreement with reference 2). In the presence of halogen salts the said potential was displaced into the negative range (Table 2). As the value of the limit current remained about the same, a complex formation must be assumed. The cadmium reduction was in all cases reversible. The composition and the instability constants of the complexes formed were determined according to the same methods as mentioned in reference 1. In the 20% alcohol solution (for

Card 2/4

Polarographic Investigation of the Halogen Complexes SOV/153-58-2-7/30 of Cadmium in Mixed Solvents. Communication II. Ethanol-Water

bromides) and in the 45% solution (also for chlorides) the following complexes were found: CdCl+, CdCl2, CdBr+ and CdBr2. In alcohol solutions with higher concentrations' only the complexes CdCl, and CdBr, occurred. The same complexes as in aqueous solutions were found for iodide complexes of cadmium in a 20% alcohol solution (Ref 1), i.e. with coordination numbers from 1 to 4. With the increase of the alcohol content the equilibrium was displaced in the direction of the coordination saturated complexes. Already in a 65% alcohol solution the complex CdJ2 dominated within the whole concentration range investigated. From the comparison of the methanol solutions it may be seen that ethanol additions influence the equilibrium displacement of the complexes to a much higher degree than methanol additions. The values of the instability constant decrease with the increase of the alcohol content in the solutions. Between -log K and 1/D exists a linear dependence for the complexes investigated.

Card 3/4

Polarographic Investigation of the Halogen Complexes SOV/153-58-2-7/30 of Cadmium in Mixed Solvents. Communication II. Ethanol-Water

It was proved that the increase of the influence of the alcohol additions of the changes of the instability constant with the increase of the coordination number is bound to the stepwise character of the dissociation of complexes. There are 4 figures, 5 tables, and 9 references, 7 of which are Soviet.

ASSOCIATION: Kiyevskiy politekhnicheskiy institut (Kiyev Polytechnical

Institute) Kafedra fizicheskoy i kolloidnoy khimii

(Chair of Physical and Colloid Chemistry)

SUBMITTED: September 23, 1957

Card 4/4

Pol.	arographic st no.2:390-393 (Cadmium)	udy of wa F 162. (Polaro	ter-propa graphy)	nol solut:	ions. Zhur alcohol)	neorg.khim. (MIRA 15:3)	

KHOTSYANOVSKIY, 0.1. Polarographic behavior of cadmium and lead ions in aqueous solutions of acetic acid. Ukr.khim.zhur. 28 no.9:1107-1110 (62. 1. Kiyevskiy politekhnicheskiy institut. (Cadmium—Analysis) (Lead—Analysis) (Polarography)

KHOTTS, G. I.

KHOTTS, G. I.: "Problems in the psychology of comparison in teaching foreign languages in the fifth and sixth classes of secondary school." Moscow, 1955.

Moscow City Pedagogical Inst imeni V. P. Potemkin. (Dissertation for the Degree of Candidate of Pedagogical Sciences)

SO: Knizhnaya Letopis' No. 46, 12 November 1955. Moscow.

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310015-0"

KLYUCHNIKOV, A.I., kandidat sel'skokhosyaystvennykh nauk; KHOTULEV, M.I.; inshener; DZYUBLO, A.F., agronom.

Results of testing castor bean shellers. Sel'khosmashina no.12: 4-7 D '55. (MLRA 9:3)

(Agricultural machinery)

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310015-0"

KHOTULEV, V.K.

AID P - 1596

Subject

: USSR/Electricity

Card 1/2 Pub. 27 - 5/27

Authors

: Druzhinin, N. N., Kand. of Tech. Sci., and

Khotulev, V. K., Eng.

Title

: Methods of calculation of the electric drives of loop-

holders of thin-sheet rolling mills

Periodical: Elektrichestvo, 3, 22-27, Mr 1955

Abstract

The author describes an analytical and experimental study made with thin-sheet hot rolling at one of the steel, mills of the USSR. Earlier approaches to the problem as if it were a static one resulted in confusion. The author studies the problem as a dynamic one, and takes into consideration the relation-between the forward flow of the metal and its pull. The solution of the equation of motion disclosed that the inclusion of the loop-holder on a tight driving belt leads to the formation of a loop. The results of the analysis of the drive permit establishing a method of calculation and of selection of the

AID P - 1596

Elektrichestvo 3, 22-27, Mr 1955

Card 2/2 Pub. 27 - 5/27

electric drive. A short numerical example follows. Three diagrams, 3 Russian references (1948 - 1953)

Institution: Central Scientific Research Institute of Technology and

Machine Building

Submitted: D 7, 1954

KHOTULEY, V.K.

AID P = 3247

Subject

: USSR/Electricity

Card 1/2

Pub. 27 - 2/25

Authors

: Druzhinin, N. N., Kand. Tech. Sci., Dotsent, and V. K. Khotulev, Eng., Moscow

Title

Problems of dynamic drop of motor speed in continuous rolling mills

Periodical

: Elaktrichestvo, 9, 8-14, S 1955

Abstract

The authors analyze the problems arising during the transient period, when the speed drop in a continuous rolling mill may exceede the steady-state speed drop. In extreme cases, several oscillations in speed may occur between stands with the result of "ballooning" or "stretching" the product. The authors analyze phenomena occurring in the transient period in order to find relations between mechanic (dynamic and static) and electrical characteristics. This enables them to select the type of electric drive of the rolling mill. Analytical calculations are favorably compared with experimental data obtained from tests. The authors

ADD P - 3247

Elektrichestvo, 9, 8-14, 8 1955

Card 2/2 **Pub.** 27 - 2/25

> conclude that the use of speed drives is more efficient from the point of view of the impact speed drop. Seven diagrams, 5 references 1949-1954, 4 Soviet.

Institution : None

: 🐱 3, 1955 Submitted

SOV/137-57-6-9905

Translation from: Referativnyy zhurnal, Metallurgiya, 1957, Nr 6, p 84 (USSR)

AUTHORS: Druzhinin, N.N., Khotulev, V.K.

An Investigation of the Electric Drive for Thin Strip Mill Loop Re-TITLE:

peaters (Issledovaniye elektroprivoda petlederzhateley tonkolisto-

vykh stanov)

PERIODICAL: V sb.: Prokatnyye stany, Nr 7, Moscow, Mashgiz, 1956, pp 5-17

ABSTRACT:

In continuous hot rolling, when the metal being rolled is passing simultaneously through a number of stands (S), tensile or compressive stresses may develop in the section between S due to changes in a number of production and electrical parameters both in transient and in steady conditions. To prevent ary tangling up of the loop forming between the S of thin strip mills, [tower-type] loop repeaters (L) are provided. The L drive is usually provided by electric motors or compressed-air cylinders. As a result of investigations of the rolling process in the finishing group of S of the 1450 thin strip mill of the Magnitogorsk Metallurgical Kombinat, the following may be deemed to be established: 1. The moment of the L

Card 1/2 motor does not determine the tension on the strip under steady

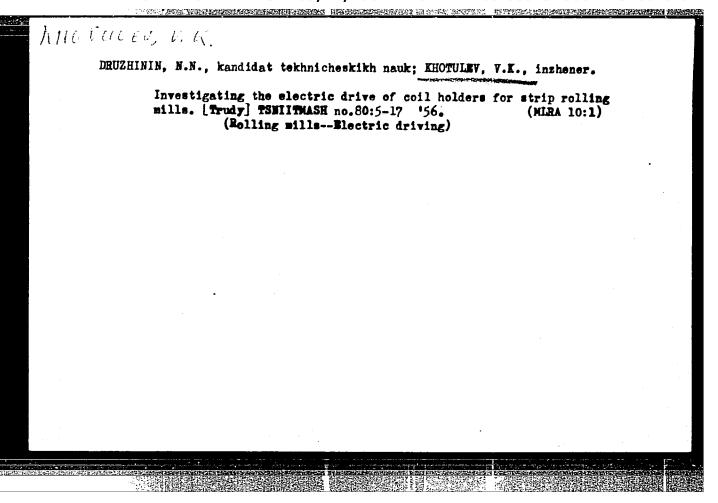
SOV/137-57-6-9905

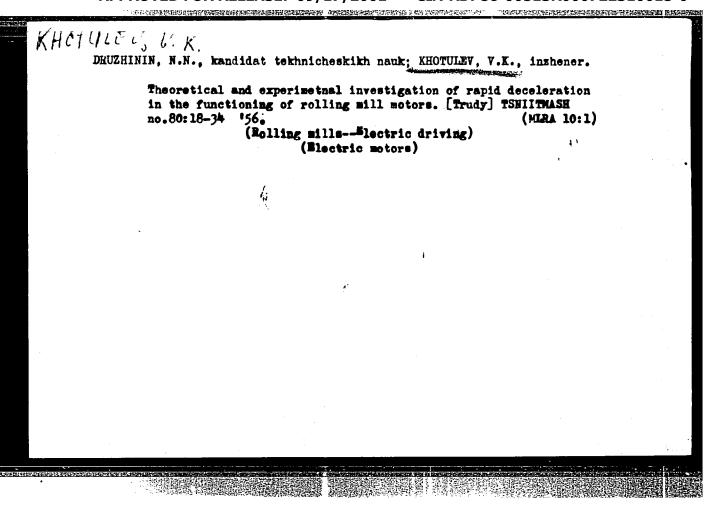
An Investigation of the Electric Drive for Thin Strip Mill Loop Repeaters

conditions. The tension on the strip in rolling both with and without L is determined by the ratio between the speeds of the S motors. 2. At a given L-motor torque the height to which it rises depends upon the tension on the strip: the greater the tension, the less the rise of the L. Thus, the L may be used as a tension indicator. 3. A loop of strip may form when the L is turned on as a result of the force it brings to bear upon the strip. This type of loop should be called a "forced loop", as distinct from the free loop formed by the effect upon the rate of rotation of the motors of the adjacent S. 4. The continuous rolling process with forced loops at low tensions may be employed on other types of continuous mills, e.g., in the rolling of merchant bars. The presence of an L using a forced loop as an indicator of the tension makes it possible to automate the process. In this case, the impulse produced as a function of the angle of rotation of the L has to act upon the S drive system.

B.Ye.

Card 2/2





DRUZHININ, N.N., kandidat tekhnicheskikh nauk; KHOTULEV, V.K., inzhener.

Experimental investigation of power used for hot and cold relian-

Experimental investigation of power used for hot and cold rolling on continuous rolling mills. [Trudy] TSHIITMASH no.80:130-145 \$56.

(MIRA 10:1)

(Rolling (Metalwork))-Electric driving)

《西班通报》(西班牙里的工程中的工程中的工程)

DRUZHININ, N.N., doktor tekhn. nauk; KALININ, V.P., kand. tekhn. nauk; KHOTULEV, V.K., inzh.

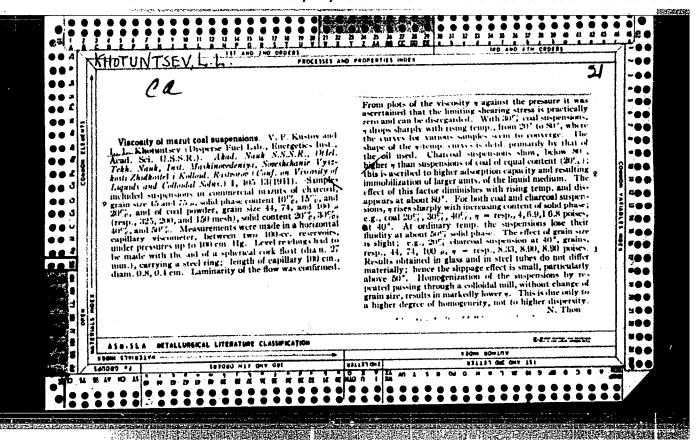
Selection of rolling methods on continuous section mills.
Stal' 24 no.8:729 Ag *64. (MIRA 17:9)

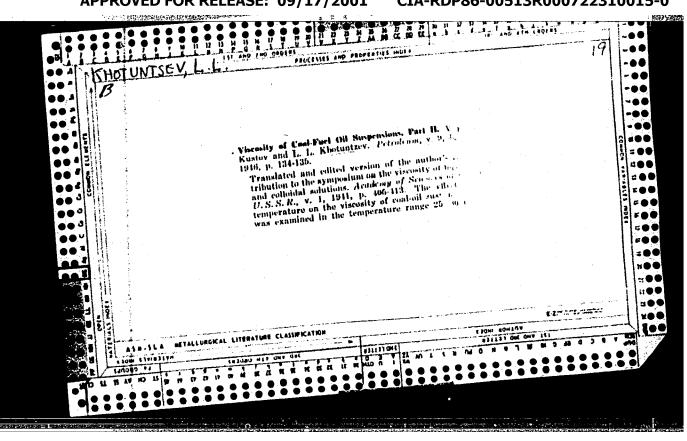
1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut metallurgicheskogo mashinostroyeniya.

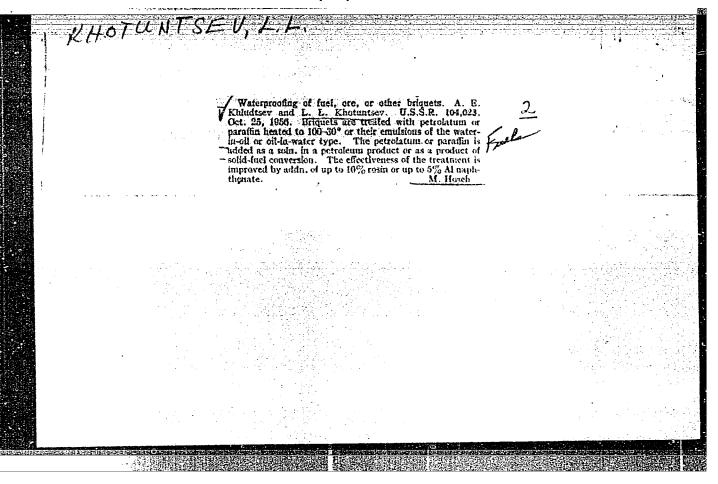
KHOTULEV, V.V.; SAPOZHNIKOV, A.S.

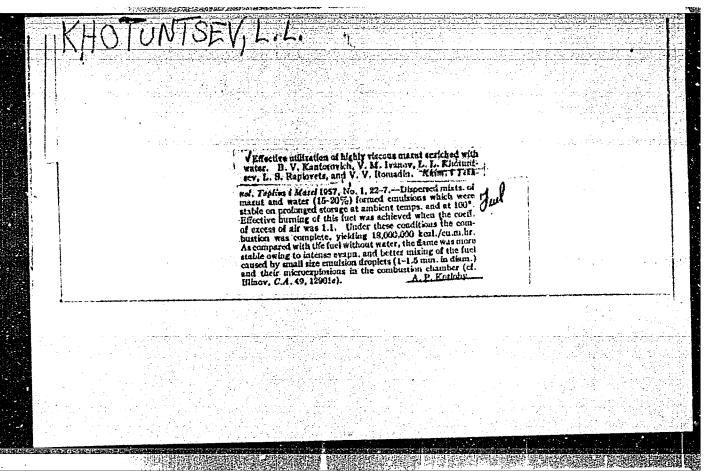
Experience in the manufacture of nonstandardized equipment in the mechanical repair shops of enterprises. Der.prom. 10 no.9:32-34 S '61. (MIRA 14:10)

1. Moskovskiy mebel'no-sborochnyy kombinat No.2.
(Moscow-Furniture industry-Equipment and supplies)









KHOTUNTSEV, L, L.

USSR/Chemical Technology - Chemical Products and Their

Application. Treatment of Natural Gases and Petroleum.

Motor and Jet Fuels. Lubricants.

Abs Jour

: Ref Zhur - Khimiya, No 1, 1958, 2583

Author

: Ivanov, V.M., Kantorovich, B.V., Rapiovets, L.S.,

Khotuntsev, L.L.

Inst

: Academy of Sciences USSR

Title

: Fuel Emulsions for Combustion and Gasification.

Orig Pub

: Vestn. AN SSSR, 1957, No 5, 56-59

Abstract : In a laboratory combustion chamber, with an air-excess coefficient 6 = 1.0; 1.1; 1.2; 1.5 and 2.0, combustion was carried out of stable water emulsions of highly viscous fuels, of the "water - oil" type, produced in a highspeed disperser of the Khotuntsev-Pushkin design. Emulsions fed into the combustion chamber were preheated:

Card 1/3

good of the restaues and tars, a uniform and intensive combustion is attained, with a high degree of completeness of the combustion, using a minimal coefficient of air-excess. Observations were made of the behavior of individual drops of different liquids (kerose-

APPROVED¹FOR RECEASE¹¹ 00/17/2001 12 ctal ride 80 6051 3R000722310015-0" cent into stationary air heated at 600-7000. The occurence of a "micro-explision" was noted, which decreases the dimensions of the drops, contributes to increased rate of

Card 2/3

USSR/Chemical Technology - Chemical Products and Their

8-I

Application. Treatment of Natural Gases and Petroleum.

Motor and Jet Fuels. Lubricants.

Abs Jour

: Ref Zhur - Khimiya, No 1, 1958, 2583

evaporation and ensures more intensive mixing of fuel vapor and air. A diagram and description of the disperser are included and the domains of utilization of the emulsions are enumerated.

Card 3/3

March 1995

AUTHORS:

Makhalov, P. N. and Khotuntsev, L. L. 50V/ 65-58-7-5/12

TITLE:

Thermochemical Method for Obtaining Briquettes and Coke Briquettes from Coals and Schists with Small Tendencies to Clinkering. (Termokhimicheskiy metod polucheniya briketov i koksobriketov iz slabospekayu-

shchikhsya ugley i shikht).

PERIODICAL:

Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr.7.

pp. 29 - 35. (USSR).

ABSTRACT:

A method for introducing binding substances in the vapour phase into the briquetting material and their subsequent condensation on the surface of the coal particles is discussed (Ref.1). This is achieved by plasticising the coal mass by treating the same before pressing with hot tar-containing gases. The vaporous tar substances are distributed evenly in the briquetting material, and the high-boiling fractions of coal tar interact physically and mechanically with the coal substances. Consumption of the binding substances can, therefore, be lowered, and lower pressures applied during the pressing of briquetting materials. A method and an apparatus for making briquettes under laboratory conditions are given (Fig.1). Table 1 shows the characteristics of the tested coals; Table 2

Card 1/2

APPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310015-0"

Thermochemical Methods for Obtaining Briquettes and Coke Briquettes from Coals and Schists with Small Tendencies to Clinkering.

> results of the first series of experiments. The influence of various technological parameters on the mechanical strength of the briquettes was investigated (i.e. the concentration of the tar substances in the vapour phase, the final temperature of plasticisation of the coal mass, of pressures during pressing etc - Figs. 2, 3 and Table 3). Coke briquettes were made from coal with small tendency to clinkering. The lay-out of an industrial plant for making these coal briquettes from coals and schists is described (Fig. 4). For plasticising the coal masses before pressing the same, volatile products obtained during the coking of briquettes were used, and in this way part of the heat of the direct coke gases could be used effectively. Table 6: physic o - shemical properties of coke briquettes. The authors also give a cost estimate for the process (Table 7). Tables, 4 Figures and 5 Soviet References.

ASSOCIATION: IGI AN SSSR.

Card 2/2

1. Coal--Processing 2. Fuels--Production 3. Coke--Physical

properties 4. Coke--Chemical properties

AVRAMENTO, V.I., insh.; KHOTUNTSEV, L.L., kand.tekhn.nauk Increasing water-resistance of peat briquets. Torf.prom. 35 no.8: (MIRA 11:12) 1. Institut goryuchikh iskopeyesykh AN SSSR. (Peat)

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LYSIKHINA, Aleksendra Ivenovna, stershiy nauchnyy sotrudnik; HEBINDER,

P.A., akademik; retsensent; SERB-SERBIMA, N.E., kand.khim.

P.A., akademik; retsensent; SERB-SERBIMA, N.E., kand.khim.

auk, stershiy nauchnyy sotrudnik, retsensent; LHOTUNTAEV, L.L.,

kand. tekhn.nauk, starshiy nauchnyy sotrudnik, red.; ZUBKOVA,

N.S., red.izd-va; DONSKAYA, G.D., tekhn.red.

[Surface activating additives for increasing water-resisting

properties of pavements made with bitumens and tars] Poverkh
nostnosktivnye dobevki dlia povysheniia vodoustoichivosti

nostnosktivnye dobevki dlia povysheniia vodoustoichivosti

dorosinykh pokrytii s primeneniem bitumov i degtei. Moakva,

Misuchno-tekhn.izd-vo M-va avtomobil'nogo transp. i shosseinykh

Mauchno-tekhn.izd-vo M-va avtomobil'nogo transp. i (MIRA 13:2)

(Pavements, Bituminous)

sov/65-59-7-2/12

Makhalov, P.N., Nikitin, K.G., and Khotuntsev, L.L. Influence of Bitumen Content on the Hot Strength of AUTHORS:

Brown-Coal Briquettes (Vliyaniye soderzhaniya bitumov TITLE:

na termoustoychivost' burougol'nykh briketov)

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1959, Nr 7,

pp 3-7 (USSR)

ABSTRACT: In their work the authors used Khristoforov coal dried to 14% residual moisture and ground to 0-1 mm. extraction with dichloroethane in a large laboratoryscale apparatus (Ref 5) batches with nominal bitumen contents of 11, 6.8, 3.25 and 0% were prepared. Fro each batch ten 120-g briquettes were made, three of which were used for mechanical and seven for heat-For briquetting the authors used a resistance tests. 60-tonne press giving a briquetting pressure of 1500 kg/cm2. For hot-strength tests a procedure described by Werner in 1935 (Ref 8) was used. In this a briquette (Fig 1) is burnt under load under carefully controlled conditions, (with observation) (Fig 2). The heat-resisting index being the time from the start The hot strength Card 1/2 of combustion to briquette failure.

SOV/65-59-7-2/12

Influence of Bitumen Content on the Hot Strength of Brown-Coal

Briquettes

was found to rise with decreasing bitumen contents (Table). The compression strength briquettes were 230-275 kg/cm², this property having no effect on hot

There are 2 figures, 1 table and 8 references, 4 of which are Soviet and 4 German.

ASSOCIATION: IGI AN SSSR (AS USSR)

Card 2/2

IVAROV, V.M.; KANTOROVICH, B.V.; RAPIOVETS, L.S.; KHOTUNTSEV, L.L.

Utilization of heavy petroleum residues and tars in the form of fuel emulsions for burning and gasification. Trudy IGI 11:156-168 (MIRA 13:6)

'59.

(Petroleum as fuel) (Coal tar) (Emulsions)

IVANOV, V.M., kand, tekhn. nauk; Kartorovich, B.V., doktor tekhn. nauk; RAPTOWETS, L.S., insh.; KHOTUETSEV, L.L., kand. tekhn. nauk

Water-soaked peat tare from gas producers used as fuel. Torf., prom.

36 no.7:30-32 '59. (MIRA 13:3)

1.Institut goryuchikh iskopayemykh AN SSSR.

(Peat) (Tar) (Fuel)

KHOTUNTSEV, L. L., Dr. Tech Sci — (diss) *Use of disperse systems in the oil refining processes, * Moscow, 1960, 32 pp, 150 cop. (Kalinina Peat Institute) (KL, 45-60, 124)

KHOTUNTSEV, Leontiy Leont'yevich; DMITRIYEV, S.A., kand.tekhn.nauk, otv.

red.: TEGOROV, M.G., red.izd-va; LEBEDEVA, L.A., tekhn.red.

[Physical and chemical phenomena occurring during the briquetting of solid fuels] Firiko-khimicheskie iavleniia v protasesakh brikstirovaniia tverdogo topliva. Moskva, Izd-vo Akad.nauk SSSR, 1960. 146 p.

(Briquets (Fuel))

New types of binding material for the briquetting of fine coals.

New types of binding material for the briquetting of fine coals.

(MIRA 14:4)

(Briquets (Fuel))

(Binding materials)

ETKIN, Valentin Semenovich; GERSHENZON, Yevgeniy Mikhaylovich.

Prinimali uchastiye LAVUT, A P.; LYUBIMOVA, T.F.; SOINA,

Prinimali uchastiye LAVUT, ROZHKOVA, G.I.; KARWANOVA, Ye.S.;

N.V.; KHOTUNTSEV, YU.L.; ROZHKOVA, G.I.; KARWANOVA, Ye.S.;

STRUKOV, I.A.; VYSTAVKIN, A.N., retsenzent; ARONOV, V.L.,

retsenzent; MASHAROVA, V.G., red.

[Superhigh-frequency parametric systems using semiconductor diodes] Parametricheskie sistemy SVCh na poluprovodnikovykh diodakh. Moskva, Sovetskoe radio, 1964. 351 p. (MIRA 17:11)

1 25554-66A) EVT(1)/ENA(h) UR/ 4/3
ACC NRI ANDOUGHOS
Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slobodenyuk, G. I.; Trifonov, V. I.; Khotuntsev, YU. L. Vasil'yev, V. N.; Slo
teorii i rascheta) Moscow, 12d-vo brinted. Errata slip inserted. 10,500 copies printed. Errata slip inserted. 10,500 copies printed. TOPIC TAGS: parametric amplifier, solid state amplifier, millimeter wave amplifier, TOPIC TAGS: parametric amplifier, solid state amplifier, millimeter wave amplifier,
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Card 1/2

L 25554-66 ACC NR: AM6004739 written by YU. L. Khotuntsev; Sec. 3 of Ch. II and Sec. 4 of Ch. V were written jointly by G. I. Slobodenyuk and YU. L. Khotuntsev; Ch. VIII was written by V. I. Trifonov; and Chs. IX, X, and XI were written by V. N. Vasil yev. TABLE OF CONTENTS [abridged]: Introduction - - 3 Principal symbols - - 11 Indices - - 12 Ch. I. Principles of theory of parametric amplifiers - - 13 Ch. II. Intrinsic equivalent noise temperature of parametric amplifiers - - 31 Ch. III. Bandwidth of parametric amplifiers - - 50 Ch. IV. Broadening of the bandwidth of parametric amplifiers - - 85 Ch. V. Tuning of parametric amplifiers - - 136 Ch. VI. Instability of phase-frequency and amplitude frequency characteristics of parametric amplifiers - - 167 Ch. VII. Some methods for increasing the stability of the characteristics of parametric amplifiers - - 208 Ch. VIII. Multifrequency parametric amplifiers - - 240 Ch. IX. Electrodynamic problems connected with the development of coaxial-waveguide parametric amplifiers - - 282 Ch. K. Waveguide-coaxial constructions for single-loop parametric amplifiers - - 341 Ch. XI. Waveguide-coaxial constructions for two-loop parametric amplifiers - - 367 Appendices - - 420 Literature; - - 442 Card 2/20 RSUB CODE: 09/ SUBM DATE: 24Jun65/ ORIG REF: 041/ OTH REF: 032

L 63073-65 EEC(b)-2/EVA(h)/EVI(1) Pi-L/Pj-L/Pl-L/Pm-L/Peb ACCESSION NR: AP5013343 UR/0109/65/010/005/0898/0902 621.378.5

AUTHOR: Slobodenyuk, G. I.: Khotuntsev, Yu. L.

TITLE: Parametric-amplifier tuning by controlling the bias and pumping amplitude of the diode

SOURCE: Radiotekhnika i elektronika, v. 10, no. 5, 1965, 898-902

TOPIC TAGS: parametric amplifier, parametric amplifier tuning

ABSTRACT: The tuning of a parametric amplifier (or converter) by controlling the capacitance and modulation factor of the parametric diode, with a fixed pumping frequency, is theoretically considered. The amplifier gain formula given by L. Blackwell and K. Kotzebue ("Semiconductor-diode parametric amplifiers," NY, 1961) is used; no input filter is assumed. The formulas for the tuning range are tested in the cases of alloy and diffused diodes having typical parameters, and it is found that a two-circuit amplifier or a regenerative converter can be tuned within 10% of the signal frequency without changing the pumping frequency. Orig. art. has: 29 formulas.

Card 1/2

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<u>L 5143-66</u> EWT(d)/EWT(1)/EWA(h) ACCESSION NR: AP5026910

UR/0109/65/010/010/1907/1909 621.375.933.029.65

AUTHOR: Berlin, A. S.; Vizel', A. A.; Vystavkin, A. N.; Popov, Ye. I.; Khotuntsev, Yu. L.; Shtykov, V. D.

34 ?

TITLE: Parametric amplification in the 8-mm band

SOURCE: Radiotekhnika i elektronika, v. 10, no. 10, 1965, 1907-1909

TOPIC TAGS: parametric amplification, millimeter wave 4

ABSTRACT: In recently published articles (B. C. DeLoach, Proc. IEEE, 1963, 51, 8, 1153 and others) on millimeter-band semiconductor amplifiers, no characteristics have been reported. The present article describes the design and characteristics of and indicates an application for an 8-mm-band parametric amplifier. Coaxial-design epitaxial germanium diodes with 0.04-0.08-pf capacitance and 3-5-v reverse voltage were used in most experiments; critical frequency at a bias of -3 v was 280-430 Gc. The diodes operated as amplifiers at a low pumping power and an operating-point bias of 0.5-2 v. The diodes were tested within -60+85C; up to +60C, the leakage current at -1.5 v was 1 µamp or less. The new diodes were tested in a single-cavity 8-mm parametric amplifier (see Fig. 1 of Enclosure). The signal is applied via a tapered waveguide matching unit 1. Behind the diode 4, a short-circuiting section 2 is arranged whose length equals an odd number of

Card 1/12

09017:61

600 ± 150 K. The parametric amplifier was used in a modulation-type radio fluctuation sensitivity was measured. Orig. art. has: 3 figures and 2 for	
ASSOCIATION: none	
SUBMITTED: 23Jan65 ENCL: 01 SUB CODE:	EC.
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"APPROVED FOR RELEASE: 09/17/2001

CIA-RDP86-00513R000722310015-0

KHOTYACHUK, F. M.

47-58-2-30/30

AUTHORS:

Los', G.A.; Khotyachuk, F.M.; Chupik, I.P.; Akopyan, A.

TITLE:

Chronicle of School Work (Khronika raboty shkol)

PERIODICAL: Fizika v Shkole, 1958, Nr 2, p 96 (USSR)

ABSTRACT:

1) Pupils of the High School in Shurovchiki, Izyaslav region, Khmel'nitskiy Oblast', always co-operated with kolkhozes. They helped them in gathering crops, and the kolkhozes helped them

in buying a power plant of 12 kw.

2) Pupils of 9th and 10th classes of the High School in Stavropol-Kavkazskiy organized a reunion consecrated to new achieve-

ments in the fields of science and engineering. 3) During the past years the High School in Balludzhin, in the Azerbaydzhan SSR, bought more than 10,000 rubles worth of instruments and also received a wind operated electric power

plant.

AVAILABLE:

Library of Congress

Card 1/1

2. Education-USSR 1. Group dynamics-USSR

USCOMM-DC-54749

Decade generator for measuring infrasonic and sonic frequencies.

Avtomatyka no.2:91-93 '56. (MIRA 9::0)

1.Institut budivel'noi mekhaniki Akademii nauk URSR.

(Frequency measurements)(Sound--Measurement)

S/123/60/000/024/012/014 A005/A001

6,8000 (3201,1095,1162)

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1960, No. 24, p. 259, # 133958

AUTHOR:

Khotyaintsev, N.P.

TITLE:

A Method for Increasing the Measurement-Generator Accuracy and New

Makes of These Devices

PERIODICAL:

Inform. materialy. In-t stroit. mekhan. AN UkrSSR, 1959, No. 11,

pp. 18-24

TEXT: The author describes a method for increasing the accuracy of measurement-generators and makes of these devices developed in the Institut stroitsl'noy mekhaniki AN UkrSSR (Institute of Construction Mechanics of the Academy of Sciences of the Ukrainian SSR). For increasing the accuracy and the stability of tuning to the various frequencies in the subsonic and sonic frequency ranges, the tuning is performed discretely according to the decimal principle. The generator of sine-shaped alternating voltage of the P 46-1 (R46-1)-make with a three-digit decimal capacitor system of tuning is calculated for the frequency range from 0.1 to

Card 1/2

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S/123/60/000/024/012/014 A005/A001

A Method for Increasing the Measurement-Generator Accuracy and New Makes of These Devices

10,000 cps and 5 w output. In the generator of the R46-2 make which is modernized by the use of the decimal capacitor tuning system and a three-digit digital frequency indicator, a continuous frequency control within the limits of 1% and excitation-range adjusters for the various frequencies were added. The voltage change limits at the output are 0 - 150 v; the maximum power is 4 w; the overall dimensions are 320 x 235 x 300 mm; the weight is 14.7 kg. In generators R46-3 and R46-4, the decimal capacitor systems are replaced by decimal systems with highly-stable resistances to increase the accuracy.

B.Yu.B.

Translator's note: This is the full translation of the original Russian abstract.

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Card 2/2

ARPHIPOV, D.; KHOTYAKOV, M.

For economy and careful use of materials. Sov.profsoiuzy 5 no.7:28-32
J1 '57.

1.Predsedatel'komiteta profsoyusa Moskovskogo savoda avtotraktornogo elektrooborudovaniya (for Arkhipov). 2.Machal'nik planovogo otdela Moskovskogo savoda avtotraktornogo elektrooborudovaniya (for Inotyakov)

(Moscow--Electric machinery industry)

KIRPICHEVA, Iraida Konstantinovna; BERKOV, N.P., prof., red.; KHOTYAKOV, Ya.I.

[Bibliographical aids for research work; a practical reference book]
Bibliografiia v pomoshch nauchnoi rabote; metodicheskoe i spravochnoe
posobie. Pod red. P.N.Berkova. Leningrad, Gos.pulb. biblioteka im.
M.E.Saltykova—Shchedrina, 1958. 480 p. (MIRA 11:3)
(Bibliography)

ACC NR: AP7009128

SOURCE CODE: UR/0413/67/000/003/0117/0117

INVENTOR: Khotyaintsev, N. P.; Loshak, M. G.; Korsakevich, N. I.

ORAPPROVED FOR RELEASE: 09/17/2001 CIA-RDP86-00513R000722310015-0

TITLE: An installation for impact fatigue testing. Class 42, No. 191187 [announced by the Ukrainian "Order of the Red Banner of Labor" Scientific Research Institute for the Design and Technology of Superhard Synthetic Materials and Tools (Ukrainskiy ordena Trudovogo Krasnogo Znameni nauchno-issledovatel'skiy konstruktorsko-tekhnologicheskiy institut materialov i instrumenta)]

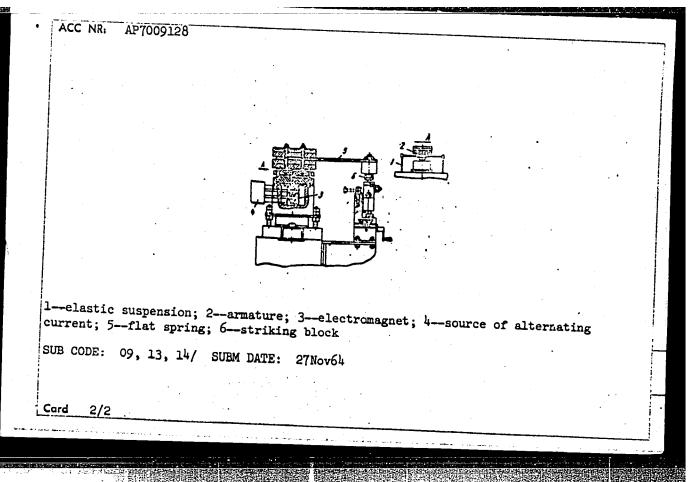
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 3, 1967, 117

TOPIC TAGS: test facility, fatigue test, impact test, electric measuring instrument

ABSTRACT: This Author's Certificate introduces a fatigue testing installation which contains an electromagnet with an armature, a block on which this armature acts and a specimen holder. Test productivity is increased and impact duration is controlled by mounting the armature on an elastic suspension and connecting the electromagnet to a source of alternating current with a frequency equal to that of the mechanical system formed by the mass of the armature and the rigidity of the suspension. A flat spring connects the armature to the striking block.

Card 1/2

UDC; 620.178.353



BELYANKIN, Fedor Pavlovich, akademik; MALASHENKO, Sergey Vasil yevich, doktor tekhn. nauk; KHOTYANITSEV, Nikolay Pavlovich, starshiy nauchnyy sotr.; MOZNIKER, Riva Abramovna, vedushchiy inzh.; RADZIYEVSKIY, Vadim Antonovich, vedushchiy inzh.; VASILEVSKAYA, Zoya Ivanovna, vedushchiy inzh.; DRAYGOR, D.A., doktor tekhn. nauk, otv. red.; KISINA, I.V., red. izd-va; LIHERMAN, T.R., tekhn. red.

[The R-50 universal vibratory testing unit] Universal naia vibratsionnaia ispytatel naia ustanovka R-50. Kiev, Izd-vo Akad. nauk USSR, 1961. 114 p. (MIRA 15:2)

1. Akademiya nauk USSR (for Belyankin).

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YAKOVLEV, N.H.; KHOTYAHOVA, G.B., redaktor; MANINA, N.P., tekhnicheskiy redaktor

[Sketches on the biochemistry of sports] Ocherki po biokhimii sports. Moskva, Gos.isd-vo "Piskul'tura i sport," 1955. 263 p. (Sports) (Biochemistry) (NLRA 9:1)

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[Physiological aspects of strength, speed, am endurance; sketches]
Fisiologicheskmia kharakteristika sily, bystroty i vynoslivosti;
ocherki. Moskva, Gos. isd-vo "Fiskul"tura i sport," 1956. 205 p.
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TIMOFETEV, N.V., professor, doktor meditainskikh nauk, redaktor; GIPPENBENTER, B.S., dotsent kandidat meditainskikh nauk, redaktor;
KHOTYABOVA, G.B., redaktor; DOTSENKO, A.A., tekmicheskiy redaktor

[Human physiology] Fisiologiia chelowekn. Pod obshchei red. N.V.
Timofeeva (1 chast'), i B.S.Gippenreitera (2 chast'). Moskva, Gos.
isd-vo "Fiskul'tura i sport," 1956, 391 p. (NIRA 10:2)

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[Human physiology] Fiziologiia cheloveka. Izd.2. Moskva, Gos. izd-vo "Fizkul" tura i sport. "1959. 606 p. (NIRA 13:4)

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[Medical control and exercise therapy] Vrachebnyi kontrol' 1 lechebnaia fizkul'tura. Moskva, Izd-vo "Fizkul'tura 1 sport," 1961. 287 p. (MIRA 15:2) (EXERCISE THERAPY) (MASSAGE)

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[Research methodology in sports medicine; a collection of transactions of institutes of physical culture] Metody is-sledovanii v sportivnoi meditsine; sbornik trudov institutov fizicheskoi kul'tury. Moskva, Fizkul'tura i sport, 1963. 292 p. (MIRA 17:11)

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Vladimir Antonovich, kand. pedag. nauk starshiy nauchnyy sotrudnik;
YAKOVIEV, Nikolay Nikolayevich, doktor biolog. nauk, prof.;
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POLYAKOV, I.M.; ANDREYEV, S.V.; KHOTYANOVICH, A.V.

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